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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,499	06/03/2005	Chiaki Kanai	11287-458	3466
29175 BELL BOYD	7590 08/20/2000 & LLOYD, LLP	EXAMINER		
P. O. BOX 113	35		SIDDIQUEE, MUHAMMAD S	
CHICAGO, II	. 60690		ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			08/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)		
10/537,499	KANAI ET AL.		
Examiner	Art Unit		
MUHAMMAD SIDDIQUEE	1795		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- ed natent term adjustment. See 27 CED 1 704/b)

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Status			
2a)⊠		b) This action is non-fin for allowance except for for	rmal matters, prosecution as to the merits is
Disposit	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 20-40 is/are pending in the at 4a) Of the above claim(s) 22-38 is/are Claim(s) is/are allowed.  Claim(s) 20-21 and 39-40 is/are rejectiaim(s) is/are objected to.  Claim(s) are subject to restrict to re	e withdrawn from considera	
Applicat	ion Papers		
10)	The oath or declaration is objected to under 35 U.S.C. § 119  Acknowledgment is made of a claim f  All b Some * c) None of:  1. Certified copies of the priority of the priori	a) accepted or b) bob obtion to the drawing(s) be held the correction is required if the by the Examiner. Note the or foreign priority under 35 documents have been received from the priority documents have been for the priority documents hald Bureau (PCT Rule 17.2	in abeyance. See 37 CFR 1.85(a). e drawing(s) is objected to. See 37 CFR 1.121(d). e attached Office Action or form PTO-152.  E U.S.C. § 119(a)-(d) or (f). sived. eived in Application No ave been received in this National Stage (2(a)).
Attachmen	t(s)		
2) Notice 3) Imformation	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (P' mattor: Disdosure Citatement(s) (PTO/SE/08) To(s)/Mail Drawins (Office)	ro-948) 5).	Interview Summary (PTO-413) Paper No(s)Mail Date. Notice of Informat Pater Lapplication. Other:
S. Patent and T PTOL-326 (F		Office Action Summary	Part of Paper No./Mail Date 20080811

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#### DETAILED ACTION

 Applicant's amendment filed on 5/7/2008 was received. Claims 1-19 are cancelled, claim 20 is amended, claims 22-38 are withdrawn and claims 39-40 are added

## Response to Arguments

2. Applicant's arguments filed 5/7/200 have been fully considered but they are not persuasive. The applicants asserted that the film used by Yasutaka is not substantially planar. The examiner asserts that the film, over its length, is substantially planar because it has multiple points of attachment with the planar support that extend the entire length of the film.

The applicants asserted that numeral 29 in Fig. 2 is a substantially planar moisture carrier, however, numeral 29 in original disclosure reads a 'proton conductor membrane electrode assembly'.

#### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such till, lear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 20-21 and 39-40 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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Regarding claims 20-21, the applicants amended the claims with substantially planar moisture carrier which is not supported in the original disclosure. The applicants asserted that numeral 29 in Fig. 2 is a substantially planar moisture carrier, however, numeral 29 in original disclosure reads a 'proton conductor membrane electrode assembly'.

Regarding claims 39-40, In paragraph 0159 of the specification, the applicants disclose that no voltage is applied for humidity control when moisture carrier is used.

#### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claim 20 is rejected under 35 U.S.C. 102(b) as being anticipated by Yasutaka (JP 06-132038).

Regarding claim 20, Yasutaka discloses a hydrogen gas humidity control apparatus, comprising a first hydrogen flow path or chamber (14) thereof to which at least hydrogen gas is supplied; a second hydrogen flow path or chamber (13) thereof to which at least hydrogen gas is supplied; and a substantially planar steam transparency film (12) (moisture carrier) for separating the first hydrogen flow path or chamber (14) thereof from the second hydrogen flow path or chamber (13) thereof and for allowing at least one of water and water vapor to pass there through [Fig. 1].

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### Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148
   USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - Resolving the level of ordinary skill in the pertinent art.
  - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yasutaka (JP 06-132038) in view of Sugawara (US 2001/0031386 A1).

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Regarding claim 21, Yasutaka discloses a solid polymer electrolyte fuel cell comprising a gas humidifier which uses fuel gas for the fuel cell. Yasutaka fails to disclose that fuel gas is hydrogen and hydrogen is generated by fuel reforming. However, Sugawara teaches a fuel cell power generation system where hydrogen for the fuel cell is generated by fuel reforming [Abstract]. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use hydrogen gas from fuel reforming process in order to have pure hydrogen for efficient operation and readily available within the system.

#### Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD SIDDIQUEE whose telephone number is (571) 270-3719. The examiner can normally be reached on Monday-Thursday, 7:30 am to 4:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)? If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MSS

/PATRICK RYAN/ Supervisory Patent Examiner, Art Unit 1795